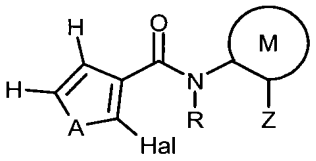
Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) 2-Halofuryl/thienyl-3-carboxamides of the formula (I)



(I),

in which

A represents O (oxygen) or S (sulphur),

Hal represents halogen,

R represents hydrogen, C_1-C_8-alkyl, C_1-C_6-alkylsulphinyl, C_1-C_6-alkylsulphonyl, C_1-C_4-alkoxy-C_1-C_4-alkyl, C_3-C_8-cycloalkyl; C_1-C_6-haloalkyl, C_1-C_4-haloalkylthio, C_1-C_4-haloalkylsulphinyl, C_1-C_4-haloalkylsulphonyl, halo-C_1-C_4-alkoxy-C_1-C_4-alkyl, C_3-C_8-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; formyl, formyl-C_1-C_3-alkyl, (C_1-C_3-alkyl)carbonyl-C_1-C_3-alkyl, (C_1-C_3-alkoxy)carbonyl-C_1-C_3-alkyl; halo-(C_1-C_3-alkyl)carbonyl-C_1-C_3-alkyl, halo-(C_1-C_3-alkoxy)carbonyl-C_1-C_3-alkyl having in each case 1 to 13 fluorine, chlorine and/or bromine atoms; (C_1-C_8-alkyl)carbonyl, (C_1-C_8-alkoxy)carbonyl, (C_1-C_4-alkoxy-C_1-C_4-alkyl)carbonyl, (C_3-C_8-cycloalkyl)carbonyl; (C_1-C_6-haloalkyl)carbonyl, (C_1-C_6-haloalkoxy)carbonyl, (halo-C_1-C_4-alkoxy-C_1-C_4-alkyl)carbonyl, (C_3-C_8-halocycloalkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; or -C(=O)C(=O)R^1, -CONR^{2}R^3 or -CH_2NR^{4}R^5,

R^1 represents hydrogen, C_1-C_8-alkyl, C_1-C_8-alkoxy, C_1-C_4-alkoxy-C_1-C_4-alkyl, C_3-C_8-cycloalkyl; C_1-C_6-haloalkyl, C_1-C_6-haloalkoxy, halo-C_1-C_4-alkoxy-C_1-C_4-alkyl, C_3-C_8-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

R^2 and R^3 independently of one another each represent hydrogen, C_1-C_8-alkyl, C_1-C_4-alkoxy-C_1-C_4-alkyl, C_3-C_8-cycloalkyl; C_1-C_8-haloalkyl, halo-C_1-C_4-alkoxy-C_1-C_4-alkyl, C_3-C_8-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

R^2 and R^3 furthermore together with the nitrogen atom to which they are attached form a saturated heterocycle having 5 to 8 ring atoms which is optionally mono- or polysubstituted by identical or different substituents selected from the group consisting of halogen and C_1-C_4-alkyl, where the heterocycle optionally contains one or two further non-adjacent heteroatoms selected from the group consisting of oxygen, sulphur and NR^6,

R^4 and R^5 independently of one another represent hydrogen, C_1-C_8-alkyl, C_3-C_8-cycloalkyl; C_1-C_8-haloalkyl, C_3-C_8-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

R^4 and R^5 furthermore together with the nitrogen atom to which they are attached form a saturated heterocycle having 5 to 8 ring atoms which is optionally mono- or polysubstituted by identical or different substituents selected from the group consisting of halogen and C_1-C_4-alkyl, where the heterocycle optionally contains 1 or 2 further non-adjacent heteroatoms selected from the group consisting of oxygen, sulphur and NR^6,

R^6 represents hydrogen or C_1-C_6-alkyl,

M represents a phenyl which is monosubstituted by R^7,

R^7 represents hydrogen, fluorine, chlorine, methyl, isopropyl, methylthio or trifluoromethyl,

Z represents Z^1, Z^2, Z^3 or Z^4, in which

Z^1 represents phenyl which is optionally mono- to pentasubstituted by identical or different substituents W^1,

W^1 represents halogen, cyano, nitro, amino, hydroxyl, formyl, carboxy, carbamoyl, thiocarbamoyl;

in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulphinyl or alkylsulphonyl having in each case 1 to 8 carbon atoms;

in each case straight-chain or branched alkenyl or alkenyloxy having in each case 2 to 6 carbon atoms;

in each case straight-chain or branched haloalkyl, haloalkoxy, haloalkylthio, haloalkylsulphinyl or haloalkylsulphonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

in each case straight-chain or branched haloalkenyl or haloalkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms;

in each case straight-chain or branched alkylamino, dialkylamino, alkylcarbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms in the respective hydrocarbon chains, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chains;

cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;

doubly attached alkylene having 3 or 4 carbon atoms, oxyalkylene having 2 or 3 carbon atoms ~~or dioxyalkylene having 1 or 2 carbon atoms~~, each of which is optionally mono- to tetrasubstituted by identical or different substituents selected from the group consisting of fluorine, chlorine, oxo, methyl, trifluoromethyl and ethyl;

~~or the grouping $C(Q^1)=N-Q^2$ in which~~

~~Q^1 represents hydrogen, hydroxyl or alkyl having 1 to 4 carbon atoms, haloalkyl having 1 to 4 carbon atoms and 1 to 9 fluorine, chlorine and/or bromine atoms or cycloalkyl having 1 to 6 carbon atoms and~~

~~Q^2 represents hydroxyl, amino, methylamino, phenyl, benzyl or represents in each case optionally cyano-, hydroxyl-, alkoxy-, alkylthio-, alkylamino-, dialkylamino- or phenyl-substituted alkyl or alkoxy having 1 to 4 carbon atoms, or represents alkenyloxy or alkynyloxy having in each case 2 to 4 carbon atoms,~~

~~and also phenyl, phenoxy, phenylthio, benzoyl, benzoylethenyl, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which radicals is optionally mono- to trisubstituted in the cyclic moiety by halogen and/or straight-chain or branched alkyl or alkoxy having 1 to 4 carbon atoms,~~

~~provided that when said Z^1 is phenyl that is mono-substituted by $-CH=N-OCH_3$, said phenyl is further substituted by at least one halogen atom~~,

Z^2 represents bicycloalkyl or cycloalkyl which is optionally mono- or polysubstituted by identical or different substituents,

Z^3 represents unsubstituted C_2-C_{20}-alkyl or represents C_1-C_{20}-alkyl which is mono- or polysubstituted by identical or different substituents selected from the group consisting of halogen, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxy, alkylamino,

dialkylamino, haloalkylthio, haloalkylsulphinyl, haloalkylsulphonyl, haloalkoxy, haloalkylamino, halodialkylamino, $-SiR^8R^9R^{10}$ and C_3-C_6-cycloalkyl, where the cycloalkyl moiety is optionally mono- or polysubstituted by identical or different substituents selected from the group consisting of halogen and C_1-C_4-alkyl,

Z^4 represents C_2-C_{20}-alkenyl or C_2-C_{20}-alkynyl, each of which is optionally mono- or polysubstituted by identical or different substituents selected from the group consisting of halogen, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxy, alkylamino, dialkylamino, haloalkylthio, haloalkylsulphinyl, haloalkylsulphonyl, haloalkoxy, haloalkylamino, halo-dialkylamino, $-SiR^8R^9R^{10}$ and C_3-C_6-cycloalkyl, where the cycloalkyl moiety is optionally mono- or polysubstituted by identical or different substituents selected from the group consisting of halogen and C_1-C_4-alkyl,

R^8 and R^9 independently of one another represent hydrogen, C_1-C_8-alkyl, C_1-C_8-alkoxy, C_1-C_4-alkoxy-C_1-C_4-alkyl, C_1-C_4-alkylthio-C_1-C_4-alkyl or C_1-C_6-haloalkyl,

R^{10} represents hydrogen, C_1-C_8-alkyl, C_1-C_8-alkoxy, C_1-C_4-alkoxy-C_1-C_4-alkyl, C_1-C_4-alkylthio-C_1-C_4-alkyl, C_2-C_8-alkenyl, C_2-C_8-alkynyl, C_1-C_6-haloalkyl, C_2-C_6-haloalkenyl, C_2-C_6-haloalkynyl, C_3-C_6-cycloalkyl, or represents in each case optionally substituted phenyl or phenylalkyl.

2. (Currently amended) 2-Halofuryl/thienyl-3-carboxamides of the formula (I) according to Claim 1 in which

A represents O (oxygen) or S (sulphur),

Hal represents fluorine, chlorine, bromine or iodine,

R represents hydrogen, C_1-C_6-alkyl, C_1-C_4-alkylsulphinyl, C_1-C_4-alkylsulphonyl, C_1-C_3-alkoxy-C_1-C_3-alkyl, C_3-C_6-cycloalkyl; C_1-C_4-haloalkyl, C_1-C_4-

haloalkylthio, C_1-C_4-haloalkylsulphinyl, C_1-C_4-haloalkylsulphonyl, halo-C_1-C_3-alkoxy-C_1-C_3-alkyl, C_3-C_8-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; formyl, formyl-C_1-C_3-alkyl, (C_1-C_3-alkyl)carbonyl-C_1-C_3-alkyl, (C_1-C_3-alkoxy)carbonyl-C_1-C_3-alkyl; halo-(C_1-C_3-alkyl)carbonyl-C_1-C_3-alkyl, halo-(C_1-C_3-alkoxy)carbonyl-C_1-C_3-alkyl having in each case 1 to 13 fluorine, chlorine[[-]]and/or bromine atoms; (C_1-C_6-alkyl)carbonyl, (C_1-C_4-alkoxy)carbonyl, (C_1-C_3-alkoxy-C_1-C_3-alkyl)carbonyl, (C_3-C_6-cycloalkyl)carbonyl; (C_1-C_4-haloalkyl)carbonyl, (C_1-C_4-haloalkoxy)carbonyl, (halo-C_1-C_3-alkoxy-C_1-C_3-alkyl)carbonyl, (C_3-C_6-halocycloalkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms, or $-C(=O)C(=O)R^1$, $-CONR^2R^3$ or $-CH_2NR^4R^5$,

R^1 represents hydrogen, C_1-C_6-alkyl, C_1-C_4-alkoxy, C_1-C_3-alkoxy-C_1-C_3-alkyl, C_3-C_6-cycloalkyl; C_1-C_4-haloalkyl, C_1-C_4-haloalkoxy, halo-C_1-C_3-alkoxy-C_1-C_3-alkyl, C_3-C_6-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

R^2 and R^3 independently of one another each represent hydrogen, C_1-C_6-alkyl, C_1-C_3-alkoxy-C_1-C_3-alkyl, C_3-C_6-cycloalkyl; C_1-C_4-haloalkyl, halo-C_1-C_3-alkoxy-C_1-C_3-alkyl, C_3-C_6-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

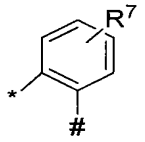
R^2 and R^3 furthermore together with the nitrogen atom to which they are attached form a saturated heterocycle having 5 or 6 ring atoms which is optionally mono- to tetrasubstituted by identical or different substituents selected from the group consisting of halogen and C_1-C_4-alkyl, where the heterocycle optionally contains 1 or 2 further non-adjacent heteroatoms selected from the group consisting of oxygen, sulphur and NR^6,

R^4 and R^5 independently of one another represent hydrogen, C_1-C_6-alkyl, C_3-C_6-cycloalkyl; C_1-C_4-haloalkyl, C_3-C_6-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms,

R^4 and R^5 furthermore together with the nitrogen atom to which they are attached form a saturated heterocycle having 5 or 6 ring atoms which is optionally mono- or polysubstituted by identical or different substituents selected from the group consisting of halogen and C_1-C_4-alkyl, where the heterocycle optionally contains 1 or 2 further non-adjacent heteroatoms selected from the group consisting of oxygen, sulphur and NR^6,

R^6 represents hydrogen or C_1-C_4-alkyl,

M represents



where the bond marked "*" is attached to the amide and the bond marked "#" is attached to the radical Z,

R^7 represents hydrogen, fluorine, chlorine, methyl, isopropyl, methylthio or trifluoromethyl,

Z represents Z^1, Z^2, Z^3 or Z^4, where

Z^1 represents phenyl which is optionally mono- to pentasubstituted by identical or different substituents W^1,

W^1 represents halogen, cyano, nitro, amino, hydroxyl, formyl, carboxy, carbamoyl, thiocarbamoyl;

in each case straight-chain or branched alkyl, hydroxyalkyl, oxoalkyl, alkoxy, alkoxyalkyl, alkylthioalkyl, dialkoxyalkyl, alkylthio, alkylsulphinyl or alkylsulphonyl having in each case 1 to 8 carbon atoms;

in each case straight-chain or branched alkenyl or alkenyloxy having in each case 2 to 6 carbon atoms;

in each case straight-chain or branched haloalkyl, haloalkoxy, haloalkylthio, haloalkylsulphinyl or haloalkylsulphonyl having in each case 1 to 6 carbon atoms and 1 to 13 identical or different halogen atoms;

in each case straight-chain or branched haloalkenyl or haloalkenyloxy having in each case 2 to 6 carbon atoms and 1 to 11 identical or different halogen atoms;

in each case straight-chain or branched alkylamino, dialkylamino, alkylcarbonyl, alkylcarbonyloxy, alkoxycarbonyl, alkylaminocarbonyl, dialkylaminocarbonyl, arylalkylaminocarbonyl, dialkylaminocarbonyloxy having 1 to 6 carbon atoms in the respective hydrocarbon chains, alkenylcarbonyl or alkynylcarbonyl having 2 to 6 carbon atoms in the respective hydrocarbon chains;

cycloalkyl or cycloalkyloxy having in each case 3 to 6 carbon atoms;

doubly attached alkylene having 3 or 4 carbon atoms, oxyalkylene having 2 or 3 carbon atoms ~~or dioxyalkylene having 1 or 2 carbon atoms~~, each of which is optionally mono- to tetrasubstituted by identical or different substituents selected from the group consisting of fluorine, chlorine, oxo, methyl, trifluoromethyl and ethyl;

~~or the grouping $C(Q^1)=N-Q^2$ in which~~

~~Q^1 represents hydrogen, hydroxyl or alkyl having 1 to 4 carbon atoms, haloalkyl having 1 to 4 carbon atoms and 1 to 9 fluorine, chlorine and/or bromine atoms or cycloalkyl having 1 to 6 carbon atoms and~~

~~Q^2 represents hydroxyl, amino, methylamino, phenyl, benzyl or represents in each case optionally cyano-, hydroxyl-, alkoxy-, alkylthio-, alkylamino-, dialkylamino- or phenyl-substituted alkyl or alkoxy having 1 to 4 carbon atoms, or represents alkenyloxy or alkynyloxy having in each case 2 to 4 carbon atoms,~~

~~and also phenyl, phenoxy, phenylthio, benzoyl, benzoylethenyl, cinnamoyl, heterocyclyl or phenylalkyl, phenylalkyloxy, phenylalkylthio or heterocyclylalkyl having in each case 1 to 3 carbon atoms in the respective alkyl moieties, each of which radicals is optionally mono- to trisubstituted in the cyclic moiety by halogen and/or straight-chain or branched alkyl or alkoxy having 1 to 4 carbon atoms,~~

Z^2 represents cycloalkyl or bicycloalkyl having in each case 3 to 10 carbon atoms and being in each case optionally mono- to tetrasubstituted by identical or different substituents selected from the group consisting of halogen and/or C_1-C_4-alkyl,

Z^3 represents unsubstituted C_2-C_{20}-alkyl or C_1-C_{20}-alkyl which is mono- or polysubstituted by identical or different substituents from the group consisting of fluorine, chlorine, bromine, iodine, C_1-C_6-alkylthio, C_1-C_6-alkylsulphinyl, C_1-C_6-alkylsulphonyl, C_1-C_6-alkoxy, C_1-C_6-alkylamino, di(C_1-C_6-alkyl)amino, C_1-C_6-haloalkylthio, C_1-C_6-haloalkylsulphinyl, C_1-C_6-haloalkylsulphonyl, C_1-C_6-haloalkoxy, C_1-C_6-haloalkylamino, halo-di(C_1-C_6-alkyl)amino, $-SiR^8R^9R^{10}$ and C_3-C_6-cycloalkyl, where the cycloalkyl moiety ~~for its part~~ is optionally ~~be~~ mono- to tetrasubstituted by identical or different substituents selected from the group consisting of fluorine, chlorine, bromine, iodine, C_1-C_4-alkyl and C_1-C_4-haloalkyl,

Z^4 represents C_2-C_{20}-alkenyl or C_2-C_{20}-alkynyl, each of which is optionally mono- or polysubstituted by identical or different substituents selected from the group consisting of fluorine, chlorine, bromine, iodine, C_1-C_6-alkylthio, C_1-C_6-alkylsulphinyl,

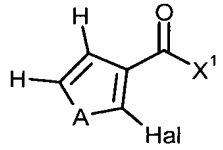
C_1-C_6-alkylsulphonyl, C_1-C_6-alkoxy, C_1-C_6-alkylamino, di(C_1-C_6-alkyl)amino, C_1-C_6-haloalkylthio, C_1-C_6-haloalkylsulphinyl, C_1-C_6-haloalkylsulphonyl, C_1-C_6-haloalkoxy, C_1-C_6-haloalkylamino, halo-di(C_1-C_6-alkyl)amino, $-SiR^8R^9R^{10}$ and C_3-C_6-cycloalkyl, where the cycloalkyl moiety for its part optionally be mno- to tetrasubstituted by identical or different substituents from the group consisiting of fluorine, chlorine, bromine, iodine, C_1-C_4-alkyl and C_1-C_4-haloalkyl,

R^8 and R^9 independently of one another represent C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_3-alkoxy-C_1-C_3-alkyl or C_1-C_3-alkylthio-C_1-C_3-alkyl,

R^{10} represents C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_3-alkoxy-C_1-C_3-alkyl, C_1-C_3-alkylthio-C_1-C_3-alkyl, C_3-C_6-cycloalkyl, phenyl or benzyl.

3. (Withdrawn) Process for preparing the 2-halofuryl/thienyl-3-carboxamides of the formula (I) according to Claim 1, characterized in that

a) carboxylic acid derivatives of the formula (II)



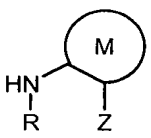
(II)

in which

A and Hal are as defined in Claim 1 and

X^1 represents halogen or hydroxyl

are reacted with aniline derivatives of the formula (III)

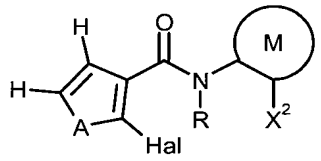


(III)

in which R, M and Z are as defined in Claim 1,

if appropriate in the presence of a catalyst, if appropriate in the presence of a condensing agent, if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent, or

b) halocarboxamides of the formula (IV)



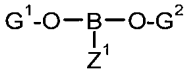
(IV)

in which

A, Hal, R and M are as defined in Claim 1,

X^2 represents bromine, iodine or trifluoromethylsulphonate,

are reacted with boronic acid derivatives of the formula (V)



(V)

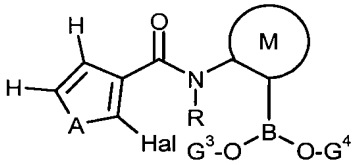
in which

Z^1 is as defined in Claim 1 and

G^1 and G^2 each represent hydrogen or together represent tetramethylethylene,

in the presence of a catalyst, if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent, or

c) boronic acid derivatives of the formula (VI)



(VI)

in which

A, Hal, R and M are as defined in Claim 1,

G^3 and G^4 each represent hydrogen or together represent tetramethylethylene

are reacted with phenyl derivatives of the formula (VII)

$X^3—Z^1$ (VII)

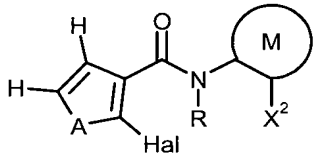
in which

Z^1 is as defined in Claim 1 and

X^3 represents chlorine, bromine, iodine or trifluoromethylsulphonate,

if appropriate in the presence of a catalyst, if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent, or

d) halocarboxamides of the formula (IV)



(IV)

in which

A, Hal, R and M are as defined in Claim 1,

X^2 represents bromine, iodine or trifluoromethylsulphonate,

are reacted with phenyl derivatives of the formula (VII)

$X^3—Z^1$ (VII)

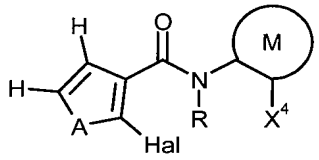
in which

Z^1 is as defined in Claim 1 and

X^3 represents chlorine, bromine, iodine or trifluoromethylsulphonate,

in the presence of a palladium or nickel catalyst and in the presence of 4,4,4',4',5,5,5',5'-octamethyl-2,2'-bis-1,3,2-dioxaborolane, if appropriate in the presence of an acid binder and if appropriate in the presence of a diluent, or

e) 2-halofuryl/thienyl-3-carboxamides of the formula (I-a)



(I-a)

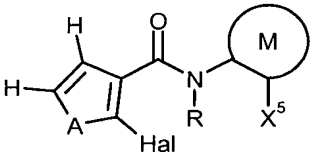
in which

A, Hal, R and M are as defined in Claim 1,

X^4 represents C_2-C_{20}-alkenyl or C_2-C_{20}-alkynyl which are in each case optionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxy, alkylamino, dialkylamino, haloalkylthio, haloalkylsulphinyl, haloalkylsulphonyl, haloalkoxy, haloalkylamino, halodialkylamino, $-SiR^8R^9R^{10}$ and C_3-C_6-cycloalkyl, where the cycloalkyl moiety for its part may optionally be substituted by halogen and/or C_1-C_4 alkyl,

are hydrogenated, if appropriate in the presence of a diluent and if appropriate in the presence of a catalyst, or

f) hydroxyalkylcarboxamides of the formula (VIII)



(VIII)

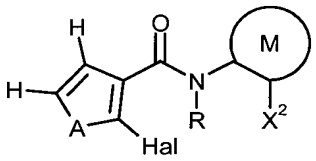
in which

A, Hal, R and M are as defined in Claim 1,

X^5 represents C_2-C_{20}-hydroxyalkyl which is optionally additionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxy, alkylamino, dialkylamino, haloalkylthio, haloalkylsulphinyl, haloalkylsulphonyl, haloalkoxy, haloalkylamino, halodialkylamino, $-SiR^8R^9R^{10}$ and C_3-C_6-cycloalkyl, where the cycloalkyl moiety for its part may optionally be substituted by halogen and/or C_1-C_4-alkyl,

are dehydrated, if appropriate in the presence of a diluent and if appropriate in the presence of an acid, or

g) halocarboxamides of the formula(IV)



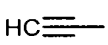
(IV)

in which

A, Hal, R and M are as defined in Claim 1,

X^2 represents bromine, iodine or trifluoromethylsulphonate,

are reacted with an alkyne of the formula (IX)

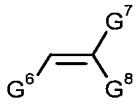


(IX)

in which

G^5 represents C_2-C_{18}-alkyl which is optionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxy, alkylamino, dialkylamino, haloalkylthio, haloalkylsulphinyl, haloalkylsulphonyl, haloalkoxy, haloalkylamino, halodialkylamino, $-SiR^8R^9R^{10}$ and C_3-C_6-cycloalkyl, where the cycloalkyl moiety for its part may optionally be substituted by halogen and/or C_1-C_4-alkyl,

or an alkene of the formula (X)



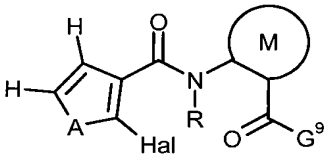
(X)

in which

G^6, G^7 and G^8 independently of one another each represent hydrogen or alkyl which is optionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxy, alkylamino, dialkylamino, haloalkylthio, haloalkylsulphinyl, haloalkylsulphonyl, haloalkoxy, haloalkylamino, halodialkylamino, $-SiR^8R^9R^{10}$ and C_3-C_6-cycloalkyl, where the cycloalkyl moiety for its part may optionally be substituted by halogen and/or C_1-C_4-alkyl and the total number of carbon atoms of the open-chain molecular moiety (without substituents) does not exceed the number 20,

if appropriate in the presence of a diluent, if appropriate in the presence of an acid binder and if appropriate in the presence of one or more catalysts, or

h) ketones of the formula (XI)



(XI)

in which

A, Hal, R and M are as defined in Claim 1,

G^9 represents hydrogen or C_1-C_{18}-alkyl which is optionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxy, alkylamino, dialkylamino, haloalkylthio, haloalkylsulphinyl, haloalkylsulphonyl, haloalkoxy, haloalkylamino,

halodialkylamino, $-SiR^8R^9R^{10}$ and C_3-C_6-cycloalkyl, where the cycloalkyl moiety for its part may optionally be substituted by halogen and/or C_1-C_4-alkyl,

are reacted with a phosphorus compound of the general formula (XII)

$G^{10}—Px$ (XII)

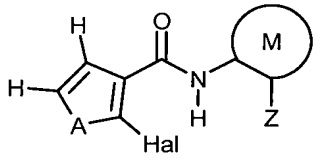
in which

G^{10} represents C_1-C_{18}-alkyl which is optionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxy, alkylamino, dialkylamino, haloalkylthio, haloalkylsulphinyl, haloalkylsulphonyl, haloalkoxy, haloalkylamino, halodialkylamino, $-SiR^8R^9R^{10}$ and C_3-C_6-cycloalkyl, where the cycloalkyl moiety for its part may optionally be substituted by halogen and/or C_1-C_4-alkyl,

Px represents a grouping $-P^+(C_6H_5)_3Cl^-$, $-P^+(C_6H_5)_3Br^-$, $-P^+(C_6H_5)_3I^-$, $-P(=O)(OCH_3)_3$ or $-P(=O)(OC_2H_5)_3$,

if appropriate in the presence of a diluent, or

i) 2-halofuryl/thienyl-3-carboxamides of the formula (I-b)



(I-b)

in which

A, Hal, R, M and Z are as defined in Claim 1

are reacted with halides of the formula (XIII)

$R^a—X^6$ (XIII)

in which

R^a represents C_1-C_8-alkyl, C_1-C_6-alkylsulphinyl, C_1-C_6-alkylsulphonyl, C_1-C_4-alkoxy-C_1-C_4-alkyl, C_3-C_8-cycloalkyl; C_1-C_6-haloalkyl, C_1-C_4-haloalkylthio, C_1-C_4-haloalkylsulphinyl, C_1-C_4-haloalkylsulphonyl, halo-C_1-C_4-alkoxy-C_1-C_4-alkyl, C_3-C_8-halocycloalkyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; formyl, formyl-C_1-C_3-alkyl, (C_1-C_3-alkyl)carbonyl-C_1-C_3-alkyl, (C_1-C_3-alkoxy)carbonyl-C_1-C_3-alkyl; halo-(C_1-C_3-alkyl)carbonyl-C_1-C_3-alkyl, halo-(C_1-C_3-alkoxy)carbonyl-C_1-C_3-alkyl having in each case 1 to 13 fluorine, chlorine and/or bromine atoms; (C_1-C_8-alkyl)carbonyl, (C_1-C_8-alkoxy)carbonyl, (C_1-C_4-alkoxy-C_1-C_4-alkyl)carbonyl, (C_3-C_8-cycloalkyl)carbonyl; (C_1-C_6-haloalkyl)carbonyl, (C_1-C_6-haloalkoxy)carbonyl, (halo-C_1-C_4-alkoxy-C_1-C_4-alkyl)carbonyl, (C_3-C_8-halocycloalkyl)carbonyl having in each case 1 to 9 fluorine, chlorine and/or bromine atoms; or $-C(=O)C(=O)R^1$, $-CONR^2R^3$ or $-CH_2NR^4R^5$,

R^1, R^2, R^3, R^4 and R^5 are as defined above,

X^6 represents chlorine, bromine or iodine,

in the presence of a base and in the presence of a diluent.

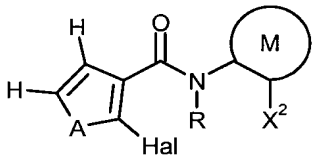
4. (Previously presented) A composition for controlling unwanted microorganisms, comprising at least one 2-halofuryl/thienyl-3-carboxamide of the formula (I) according to Claim 1, and one or more extenders and/or surfactants.

5. (Withdrawn) Use of 2-halofuryl/thienyl-3-carboxamides of the formula (I) according to Claim 1 for controlling unwanted microorganisms.

6. (Withdrawn) Method for controlling unwanted microorganisms, characterized in that 2-halofuryl/thienyl-3-carboxamides of the formula (I) according to Claim 1 are applied to the microorganisms and/or their habitat.

7. (Withdrawn) Process for preparing compositions for controlling unwanted microorganisms, characterized in that 2-halofuryl/thienyl-3-carboxamides of the formula (I) according to Claim 1 are mixed with extenders and/or surfactants.

8. (Withdrawn) Halocarboxamides of the formula (IV)



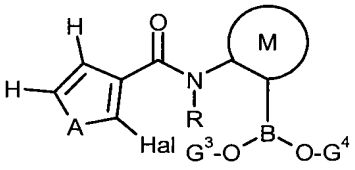
(IV)

in which

A, Hal, R and M are as defined in Claim 1,

X^2 represents bromine or iodine.

9. (Withdrawn) Boronic acid derivatives of the formula (VI)



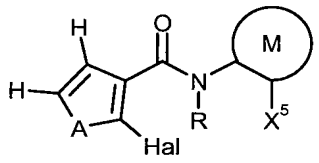
(VI)

in which

A, Hal, R and M are as defined in Claim 1,

G^3 and G^4 each represent hydrogen or together represent tetramethylethylene.

10. (Withdrawn) Hydroxyalkylcarboxamides of the formula (VIII)



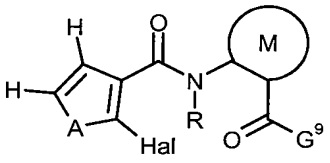
(VIII)

in which

A, Hal, R and M are as defined in Claim 1,

X^5 represents C_2-C_{20}-hydroxyalkyl which is optionally additionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxy, alkylamino, dialkylamino, haloalkylthio, haloalkylsulphinyl, haloalkylsulphonyl, haloalkoxy, haloalkylamino, halodialkylamino, $-SiR^8R^9R^{10}$ and/or C_3-C_6-cycloalkyl, where the cycloalkyl moiety for its part may optionally be substituted by halogen and/or C_1-C_4-alkyl.

11. (Withdrawn) Ketones of the formula (XI)



(XI)

in which

A, Hal, R and M are as defined in Claim 1,

G^9 represents hydrogen or represents C_1-C_{18}-alkyl which is optionally mono- or polysubstituted by identical or different substituents from the group consisting of halogen, alkylthio, alkylsulphinyl, alkylsulphonyl, alkoxy, alkylamino, dialkylamino, haloalkylthio, haloalkylsulphinyl, haloalkylsulphonyl, haloalkoxy, haloalkylamino, halodialkylamino, $-SiR^8R^9R^{10}$ and C_3-C_6-cycloalkyl, where the cycloalkyl moiety for its part may optionally be substituted by halogen and/or C_1-C_4-alkyl.

12. (New) 2-Halofuryl/thienyl-3-carboxamides of the formula (I) according to Claim 1, in which

R represents hydrogen, and

Z represents Z^1.

13. (New) 2-Halofuryl/thienyl-3-carboxamides of the formula (I) according to Claim 1, in which

R represents hydrogen, and

Z represents Z^3.

14. (New) 2-Halofuryl/thienyl-3-carboxamides of the formula (I) according to Claim 1, in which

R represents hydrogen, and

Z represents Z^4.

15. (New) 2-Halofuryl/thienyl-3-carboxamides of the formula (I) according to Claim 1, in which

R represents hydrogen,

R^7 represents hydrogen or fluorine, and

Z represents Z^3.

16. (New) 2-Halofuryl/thienyl-3-carboxamides of the formula (I) according to Claim 15, in which

Z^3 represents unsubstituted C_2-C_{20}-alkyl.

17. (New) N-[2-(1,3-dimethylbutyl)phenyl]-2-iodothiophene-3-carboxamide: